Farm Bill Section 10007 FY 15 Spending Plan

Plant Pest and Disease Management and Disaster Prevention Programs

March 18, 2015

Goal	Project #	Title	Cooperator State	Cooperator Type	Funding Level
		Tribal Nations			
5	5.0027.00	Conduct tribal member outreach and education on Farm Bill 10007, grant application process and early detection.	MT	Tribal Nation	\$75,000
5	5.0102.00	Reaching American Indian Nations3 (RAIN3) Wisconsin Tribal Conservation Advisory Council	WA	Tribal Nation	\$61,705
5	5.0231.00	Native American Internship Program "Planning for the Future"	WI	Tribal Nation	\$61,900
6	6.0050.00	Sustaining Tribal Forests by Increasing Disease Tolerance	WA	Tribal Nation	\$17,000
6	6.0260.00	Nez Perce Tribe Bio-Control Project- Noxious/Invasive Weed Survey and Control	ID	Tribal Nation	\$290,000
6	6.0330.00	Pokagon Band Ash Borer Mitigation Project	MI	Tribal Nation	\$79,195
6	6.0340.00	Mitigating the Ecological and Cultural Losses from Laurel Wilt: Year 2	FL	Tribal Nation	\$135,379
6	6.0461.00	Tribal Mitigation and Quarantine Protocol Development	WI	Tribal Nation	\$67,500
		National			\$787,679
		A generic validation method for plant pest and			
1A	1A.0257.01	pathogen surveys - UK	National	Foreign	\$114,877
1A	1A.0257.02	A generic validation method for plant pest and pathogen surveys - UK	National	Foreign	\$101,873
1A	1A.0344.02	Characterizing risk posed by exotic lymantriid moths - China	National	Foreign	\$37,015
1A	1A.0344.03	Characterizing risk posed by exotic lymantriid moths - China	National	Foreign	\$35,926
1A	1A.0344.04	Characterizing risk posed by exotic lymantriid moths - Russia	National	Foreign	\$26,928
1S	15.0000.00	Integrated Plant Health Information System	National	APHIS	\$2,600,000
15	15.0017.00	Support of the Survey Supplies Procurement Program	National	APHIS	\$250,000
3	3.0390.01	Development of Attractants and Improved Trap Designs for Exotic Wood Borers - Canada	National	Foreign	\$180,000
3	3.0452.02	Lepidoptera Attractants - China	National	Foreign	\$14,000
3	3.0452.03	Lepidoptera Attractants - Japan	National	Foreign	\$22,000
3	3.0534.01	Molecular Diagnostics of the Select Agent Xanthomonas oryzae - Philippines	National	APHIS	\$19,800

1 S	15.0188.00	Nursery Stock Commodity Survey	AZ	State Gov't	\$185,000
		Arizona			
					\$330,918
5	5.0047.00	Forest Pest Outreach	AR	State Gov't	\$26,194
4	4.0497.04	Determining 'High Risk' viruses for blueberry nursery production in the U.S.	AR	Academia	\$28,275
4	4.0404.00	Monitoring pilot studies for implementation of certification programs for blueberry nursery stock	AR	Academia	\$13,530
4	4.0190.00	Safeguarding strawberry nurseries from virus epidemics – YEAR 2	AR	Academia	\$100,000
4	4.0034.01	Survey for newly reported and economically important viruses in U.S. national berry germplasm collections	AR	Academia	\$15,235
3	3.0169.00	Development of rapid, universal detection protocols for Rose rosette virus and its vector - YEAR 2	AR	Academia	\$85,000
15	6.0703.01	National Honey Bee Pests and Diseases Survey	AR	State Gov't	\$12,000
15	1S.0094.00	Survey for an invasive pathogen and parasite from Arkansas honey bees	AR	Academia	\$40,119
15	1S.0039.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	AR	State Gov't	\$10,565
		Arkansas			
5	5.0499.00	Alabama Citrus Heath Outreach and Education	AL	State Gov't	\$20,000 \$140,000
1S	15.0703.02	National Honey Bee Pests and Diseases Survey	AL	State Gov't	\$12,000
15	1S.0517.00	Solanaceous Commodity Survey	AL	State Gov't	\$58,000
15	1S.0494.00	Phytophthora ramorum Survey	AL	State Gov't	\$50,000
		Alabama			
					\$83,690
5	5.0083.00	Forest Pest Outreach	AK	Academia	\$38,690
1 S	1S.0445.00	Asian Defoliating Moth Survey	AK	State Gov't	\$45,000
		Alaska			+ 1/2 22/2
6	6.0700.00	Rapid Response Fund	National	APHIS	\$1,303,022 \$4,963,512
6	6.0349.02	treatments for exotic fruit flies - Austria	National	Foreign	\$200,571
6	6 0240 02	Harmonization of generic phytosanitary cold	Netteral	.	6200 574
6	6.0335.01	longhorned beetle parasitoids - Philippines	National	Foreign	\$57,500

1S	1S.0282.00	Nut Commodity Survey	AZ	State Gov't	\$175,000
1S	1S.0703.34	National Honey Bee Pests and Diseases Survey	AZ	State Gov't	\$12,000
					\$372,000
		California			
1A	1A.0202.02	NPDN Data Analysis	CA	Academia	\$9,900
15	1S.0275.03	Stone Fruit Commodity Survey	CA	State Gov't	\$22,000
1S	1S.0303.00	Asian Defoliating Moth Survey	CA	State Gov't	\$525,000
1S	1S.0325.00	Palm Commodity Survey	CA	State Gov't	\$280,000
15	1S.0342.00	Polyphagous Shot Hole Borer/Fusarium Dieback in Avocado	CA	Academia	\$225,000
1S	15.0411.00	False Codling Moth Survey	CA	State Gov't	\$100,000
15	15.0427.00	Khapra Beetle Survey	CA	State Gov't	\$170,000
15	15.0429.00	Exotic Fruit Fly Survey	CA	State Gov't	\$4,000,000
15	15.0430.00	Tomato Commodity Survey	CA	State Gov't	\$120,000
1S	15.0522.01	Phytophthora ramorum Survey	CA	Academia	\$5,400
1S	1S.0522.02	Phytophthora ramorum Survey	CA	Academia	\$24,600
15	1S.0547.00	Exotic Woodborer and Bark Beetle Survey	CA	State Gov't	\$150,000
1S	1S.0567.00	Stone Fruit Commodity Survey	CA	State Gov't	\$400,000
2	2.0294.00	California Detector Dog Team Program	CA	State Gov't	\$3,399,408
3	3.0048.00	Enhancing taxonomic and molecular diagnostics capacity for fruit flies (Diptera: Tephritidae)	CA	State Gov't	\$210,028
3	3.0126.00	Delivery of taxonomic training through distance education: Malacology workshop	CA	Academia	\$28,651
3	3.0348.02	Optimization and deployment of a systematic approach for diagnosis and identification of Phytophthora plant pathogens	CA	Non-APHIS- Federal	\$153,977
3	3.0381.00	Detection and management of <i>Helicoverpa</i> armigera	CA	Private Entity	\$185,000
3	3.0390.04	Development of attractants and improved trap designs for exotic wood borers	CA	Academia	\$164,765
4	4.0159.00	Confirming the pathogenicity and host range of Phytophthora ramorum	CA	APHIS	\$75,000
4	4.0222.02	Audit training for state and Federal personnel - Plant Pest Management Accreditation Programs	CA	State Gov't	\$17,500
4	4.0357.00	National Ornamentals Research Site at Dominican University of California (NORS-DUC)	CA	APHIS	\$424,303

		National Ornamental Research Site at Dominican			
4	4.0432.00	University Oversight and Liaison	CA	State Gov't	\$50,000
4	4.0460.03	Assessment of disinfectants for control of Phytophthora ramorum	CA	Academia	\$4,050
		Are plant pathogens entering nurseries from wild			. ,
		land forests? Are native plant nurseries serving as		Non-APHIS-	
4	4.0508.00	pathogen gateways?	CA	Federal	\$79,743
4	4.0525.00	Management of phytophthora species in nursery crops using polyacrylamide	CA	Academia	\$16,583
4	4.0536.00	Understanding the forage opportunities present for honey bees in current commercial plant material stocks	CA	Non-Profit	\$272,140
4	4.0538.00	Best management practices program for ornamental and native plant nurseries: Surveys, training and documentation	CA	State Gov't	\$40,000
5	5.0109.00	Cultivating traditional ecological knowledge to prevent introduction and spread of forest insects and pathogens	CA	Non-APHIS- Federal	\$38,454
5	5.0419.00	Protecting plants in our communities and our forests: Invasive spp and plant health outreach for low-income, minority youth	CA	Non-APHIS- Federal	\$27,608
5	5.0566.00	Prevent fruit fly introduction and spread	CA	State Gov't	\$24,930
6	6.0309.03	Activators and attractants for giant African land snails	CA	Academia	\$122,778
6	6.0313.01	Development of attractant-based detection and control methods for invasive gastropod species	CA	Academia	\$84,654
6	6.0414.02	Collaborative educational and regulatory efforts between California, Florida and Hawaii agriculture departments	CA	State Gov't	\$30,000
6	6.0451.03	Brown Marmorated Stink Bug (BMSB) Classical Biological Control	CA	Academia	\$42,000
6	6.0451.05	Brown Marmorated Stink Bug (BMSB) Classical Biological Control	CA	State Gov't	\$18,132
6	6.0469.00	Natural enemies and control of polyphagous shot hole borer (Euwallacea)	CA	Academia	\$73,753
		Colorado			\$11,615,357
		Census travel risk model to predict points of disease/pest introduction and associated survey			
1A	1A.0378.01	optimizer	СО	APHIS	\$8,000
15	15.0292.00	Stone Fruit Commodity Survey	СО	State Gov't	\$11,664
15	1S.0301.00	Grape Commodity Survey	СО	State Gov't	\$19,869

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15	1S.0703.04	National Honey Bee Pests and Diseases Survey	СО	State Gov't	\$12,000
3	3.0096.02	Digital imagery for pest screening, detection, and identification	СО	Academia	\$158,195
		Real-time PCR methods for noctuid moth identification: Autographa gamma and			
3	3.0262.02	Helicoverpa armigera	СО	Academia	\$101,536
3	3.0281.01	Enhancement of fruit fly immature stage ID and taxonomy	СО	State Gov't	\$17,000
4	4.0460.01	Assessment of disinfectants for control of Phytophthora ramorum	CO	Academia	\$40,125
4	4.0460.02	Assessment of disinfectants for control of Phytophthora ramorum	СО	APHIS	\$6,700
					\$375,089
		Connecticut			
1S	1S.0189.00	Grape Commodity Survey	СТ	State Gov't	\$13,100
15	1S.0191.00	Orchard Commodity Survey	СТ	State Gov't	\$13,100
15	1S.0703.05	National Honey Bee Pests and Diseases Survey	СТ	State Gov't	\$12,000
5	5.0031.00	Forest Pest Outreach	СТ	State Gov't	\$22,000
6	6.0351.03	Boxwood Blight: Studying biology & host-pathogen interactions to enhance mitigation strategies	СТ	Academia	\$232,979
					\$293,179
		DC			
3	3.0281.02	Enhancement of fruit fly immature stage ID and taxonomy	DC	Non-APHIS- Federal	\$10,000
					\$10,000
		Delaware			
5	5.0473.00	Forest Pest Outreach	DE	State Gov't	\$23,075
6	6.0451.04	Brown Marmorated Stink Bug (BMSB) Classical Biological Control	DE	Academia	\$77,866
6	6.0451.06	Brown Marmorated Stink Bug (BMSB) Classical Biological Control	DE	Non-APHIS- Federal	\$7,000
6	6.0451.07	Brown Marmorated Stink Bug (BMSB) Classical Biological Control	DE	Non-APHIS- Federal	\$56,000
		0	~		\$163,941
		Florida			
1A	1A.0180.01	Decision-support dataset to prevent establishment of exotic tree-killing wood borers	FL	Academia	\$207,689
1A	1A.0180.02	Decision-support dataset to prevent establishment of exotic tree-killing wood borers	FL	State Gov't	\$5,000
1A	1A.0180.02	· ·	FL	State Gov't	\$5,00

		Risk-based residential and commercial survey			
		design for management of plum pox virus in		Non-APHIS-	
1A	1A.0346.00	California	FL	Federal	\$169,918
		Census travel risk model to predict points of			
1A	1A.0378.03	disease/pest introduction and associated survey optimizer	FL	APHIS	\$224,632
171	171.0370.03	Asian Giant Hornet and Other Invasive Vespa	1.5	741113	7224,032
15	1S.0123.01	Species Detection and Mitigation	FL	State Gov't	\$75,900
15	1S.0273.02	Palm Commodity Survey	FL	State Gov't	\$11,000
15	1S.0273.03	Palm Commodity Survey	FL	State Gov't	\$2,500
15	1S.0275.01	Stone Fruit Commodity Survey	FL	Academia	\$46,081
15	1S.0275.02	Stone Fruit Commodity Survey	FL	State Gov't	\$145,044
15	1S.0297.00	Solanaceous Commodity Survey	FL	State Gov't	\$96,470
15	1S.0384.00	Old World Bollworm Survey	FL	State Gov't	\$117,921
15	1S.0393.00	Exotic Woodborer and Bark Beetle Survey	FL	State Gov't	\$136,003
15	1S.0395.00	Tomato Commodity Survey	FL	State Gov't	\$127,795
1 S	1S.0703.06	National Honey Bee Pests and Diseases Survey	FL	State Gov't	\$18,000
2	2.0008.00	Florida Detector Dog Teams	FL	State Gov't	\$511,706
		Canine detection of plum pox virus: Rapid,			
2	2.0322.01	sensitive and reliable early detection for optimum	FL	Non-APHIS- Federal	¢121 420
	2.0322.01	disease suppression in Ca Canine detection of plum pox virus: Rapid,	ΓL	reuerai	\$131,438
		sensitive and reliable early detection for optimum			
2	2.0322.02	disease suppression in Ca	FL	Industry	\$77,526
2	2.0555.00	Enhanced pest detection at high risk domestic interdiction sites and marina/canals systems	FL	State Gov't	\$812,624
	2.0333.00	Rapid and accurate diagnostic identification of	ΓL	State Gov t	3012,024
3	3.0134.02	phytoplasmas	FL	Academia	\$60,295
		Enhancement of fruit fly immature stage ID and			4
3	3.0281.03	taxonomy Delivery of an educational workshop for old world	FL	State Gov't	\$417,825
3	3.0475.00	bollworm, Helicoverpa armigera	FL	Academia	\$85,800
3	3.0498.02	Delivery of taxonomic training through distance education	FL	Academia	\$110,284
		Educational strategy for the early detection of oak			4
3	3.0556.00	pathogens and pests in the Southern United States Establishing a foundation for certification of	FL	Academia	\$96,025
4	4.0136.00	caladiums free of grassy tuber disease	FL	Academia	\$70,000
6	6.0271.00	Bean plataspid biological control	FL	State Gov't	\$98,436

		Activators and attractants for giant African land			
6	6.0309.01	snails	FL	APHIS	\$6,000
6	6.0309.04	Activators and attractants for giant African land snails	FL	State Gov't	\$53,954
0	0.0303.04	Development of attractant-based detection and	1.5	State GOV t	755,554
6	6.0313.02	control methods for invasive gastropod species	FL	APHIS	\$3,000
		Enhanced mitigation techniques for control of			
6	6.0328.01	several exotic whitefly species	FL	State Gov't	\$133,118
6	6.0328.02	Enhanced mitigation techniques for control of several exotic whitefly species	FL	Academia	\$131,434
6	6.0414.01	Collaborative educational and regulatory efforts between California, Florida and Hawaii agriculture departments	FL	State Gov't	\$60,000
6	6.0451.08	Brown Marmorated Stink Bug (BMSB) Classical Biological Control	FL	State Gov't	\$133,527
		Enhanced mitigation techniques for control of		Non-APHIS-	
6	6.0492.03	Cactoblastis cactorum	FL	Federal	\$38,930
6	6.0492.05	Enhanced mitigation techniques for control of Cactoblastis cactorum	FL	State Gov't	\$211,296
0	0.0432.03	Management of invasive thrips in high value crops – Improved delivery of entomopathogens with	12	State GOV t	7211,230
6	6.0562.00	electrostatic spray techno	FL	Academia	\$74,626
6	6.0582.00	Giant African land snail mitigation	FL	State Gov't	\$2,400,000
					\$7,101,797
	T	Georgia		T	
15	1S.0703.07	National Honey Bee Pests and Diseases Survey	GA	State Gov't	\$18,000
3	3.0096.01	Digital Imagery for Pest Screening, Detection, and Identification	GA	Academia	\$108,720
4	4.0268.00	Nursery Pest Risk Assessment	GA	State Gov't	\$50,717
_		Enhanced Mitigation Techniques for Control of		Non-APHIS-	40.00
6	6.0492.01	Cactoblastis cactorum	GA	Federal	\$34,618 \$212,055
		Guam			J212,033
1S	1S.0118.00	Invasive Species Survey-CNMI	GU	Academia	\$20,000
15	1S.0181.00	Solanaceous Commodity Survey	GU	Academia	\$38,320
	6 0204 02	Development of improved methodologies for the control of the Coconut Rhinoceros Beetle (CRB) for	GU	Acada	6470.044
			<i>(</i> =1.1	/ Acadomia	
6	6.0391.00	Micronesia and Hawaii	00	Academia	\$179,844 \$238,164

		Hawaii			
		Asian Giant Hornet and Other Invasive Vespa			4
1S	1S.0123.03	Species Detection and Mitigation	HI	State Gov't	\$7,350
1S	1S.0703.08	National Honey Bee Pests and Diseases Survey	НІ	State Gov't	\$24,000
2	2.0053.00	Hawaii predeparture X-ray technology	HI	APHIS	\$125,300
3	3.0256.01	Genomic approaches to fruit fly exclusion and pathway analysis	HI	Non-APHIS- Federal	\$280,543
3	3.0230.01	Genomic approaches to fruit fly exclusion and	П	rederai	\$200,343
3	3.0256.02	pathway analysis	HI	Academia	\$246,100
3	3.0377.00	Africanized honey bee detection	HI	State Gov't	\$48,098
3	3.0553.02	Rapid On-site Molecular Diagnostics for Select Agent Ralstonia solanacearum	ні	APHIS	\$57,316
	3.0333.02	Rapid On-site Molecular Diagnostics for Select	111	Artiis	757,510
3	3.0553.03	Agent Ralstonia solanacearum	НІ	APHIS	\$57,316
5	5.0372.00	Outreach and education on honeybee pest management in Hawaii	HI	Academia	\$95,318
6	6.0309.02	Activators and attractants for giant African land snails	НІ	Academia	\$37,197
6	6.0386.00	Enhance mitigation and rapid response (Varroa mites and Small Hive Beetle)	HI	Academia	\$80,740
		Collaborative educational and regulatory efforts between California, Florida and Hawaii agriculture			,
6	6.0414.03	departments	HI	State Gov't	\$30,000
		Rapid response to new detection of Coconut			40.000.000
6	6.0428.00	Rhinoceros Beetle in Hawaii- Year 2	HI	State Gov't	\$2,200,000 \$3,289,278
		lowa			+ + + + + + + + + + + + + + + + + + +
1S	1S.0703.11	National Honey Bee Pests and Diseases Survey	IA	State Gov't	\$12,000
3	3.0565.00	Strengthening detection method capabilities for seed borne pathogens of import concern	IA	Academia	\$109,987
		Develop a pilot biosecurity framework for			
6	6.0339.02	imported seeds to prevent entry and establishment of seed borne diseases	IA	Academia	\$239,978
0	0.0333.02	establishment of seed bottle diseases		Academia	\$361,965
		Idaho			
10	10 0702 40	National Hanny Rea Books and Discours Comm	10	Shaha Carda	¢12.000
1S	15.0703.10	National Honey Bee Pests and Diseases Survey Eradication Strategies for Globodera pallida, the	ID	State Gov't	\$12,000
6	6.0135.01	pale cyst nematode (PCN)	ID	Academia	\$39,270

	6.0435.03	Eradication Strategies for <i>Globodera pallida</i> , the	15	A	¢250.000
6	6.0135.02	pale cyst nematode (PCN) Eradication Strategies for Globodera pallida, the	ID	Academia	\$250,000
6	6.0135.03	pale cyst nematode (PCN)	ID	Academia	\$11,763
		Eradication Strategies for Globodera pallida, the			
6	6.0135.04	pale cyst nematode (PCN)	ID	Academia	\$24,679
6	6.0135.07	Eradication Strategies for <i>Globodera pallida</i> , the pale cyst nematode (PCN)	ID	Academia	\$2,411
6	6.0203.02	Hatching factors for the mitigation of PCN	ID	Academia	\$26,153
6	6.0402.01	Immunity to Potato Cyst Nematodes	ID	Academia	\$76,861
6	6.0402.03	Immunity to Potato Cyst Nematodes	ID	Academia	\$36,878
6	6.0402.05	Immunity to Potato Cyst Nematodes	ID	Academia	\$18,525
6	6.0402.06	Immunity to Potato Cyst Nematodes	ID	Academia	\$36,527
6	6.0402.08	Immunity to Potato Cyst Nematodes	ID	Academia	\$62,286
6	6.0552.01	Sterile Litchi Tomato - PCN Eradication	ID	Academia	\$17,500
6	6.0552.02	Sterile Litchi Tomato - PCN Eradication	ID	Academia	\$16,500
6	6.0552.03	Sterile Litchi Tomato - PCN Eradication	ID	Academia	\$6,000
				·	\$637,353
		Illinois			
1S	15.0327.00	Orchard Commodity Survey	IL	State Gov't	\$27,370
15	1S.0332.00	Forest Pest Pathway Survey	IL	State Gov't	\$22,409
15	15.0703.09	National Honey Bee Pests and Diseases Survey	IL	State Gov't	\$12,000
13	13.0703.09	National Honey Bee Fests and Diseases Survey	IL IL	State Gov t	
5	5.0035.00	Forest Pest Outreach	IL	Non-Profit	\$66,272
		Indiana			\$128,051
					40= 000
1A	1A.0202.01	NPDN Data Analysis Walnut Twig Beetle/Thousand Cankers Disease	IN	Academia	\$37,000
1S	1S.0446.00	Survey	IN	State Gov't	\$60,000
15	1S.0703.12	National Honey Bee Pests and Diseases Survey	IN	State Gov't	\$12,000
4	4.0363.00	Notification Online	IN	Academia	\$21,945
5	5.0504.00	Forest Pest Outreach	IN	State Gov't	\$39,630
6	6.0197.02	Implementing the ETKnet SOP sample tracking system into the NPDN exercise module	IN	Academia	\$29,900
					\$200,475

		Kansas			
1S	15.0002.00	Orchard Commodity Survey	KS	State Gov't	\$30,935
_		Implementing the ETKnet SOP sample tracking			4
6	6.0197.01	system into the NPDN exercise module	KS	Academia	\$19,800
_		Development of new treatment options for khapra			
6	6.0447.02	beetle, Trogoderma granarium	KS	Academia	\$90,420
					\$141,155
		Kentucky		1	
1 S	1S.0070.00	Apple Commodity Survey	KY	Academia	\$15,510
10	10 0071 00	Crana Caramaditu Cumusu	1/1/	A and a main	_
1S	1S.0071.00	Grape Commodity Survey	KY	Academia	\$19,520
1 S	1S.0703.39	National Honey Bee Pests and Diseases Survey	KY	State Gov't	\$12,000
5	5.0072.00	Invasive Pest Outreach in Kentucky	KY	Academia	\$44,077
	3.0072.00	invasive rest Outreach in Kentucky	IX I	Academia	\$91,107
		Louisiana			731,107
		Louisiana			
1S	1S.0063.00	Phytophthora ramorum Survey	LA	State Gov't	\$15,405
1S	15.0194.00	Palm Commodity Survey	LA	Academia	\$98,670
					\$114,075
		Massachusetts		1	
	44.0044.04	Characterizing risk posed by exotic lymantriid		4 51 116	445 500
1A	1A.0344.01	moths	MA	APHIS	\$45,588
10	1S.0124.00	Small Fruit / Mixed Borry Commodity Survey	N 4 A	State Covit	¢22 F00
1S	15.0124.00	Small Fruit / Mixed Berry Commodity Survey	MA	State Gov't	\$22,500
1S	1S.0266.00	Phytophthora ramorum Survey	MA	State Gov't	\$17,700
3	3.0043.01	Attraction and detection of the fruit piercing moth	MA	APHIS	\$10,000
3	3.0043.01	Cerambycid/Buprestid Survey & Screening	1417 (7(1113	710,000
3	3.0288.00	Workshop	MA	State Gov't	\$68,598
		Development of attractants and improved trap			
3	3.0390.03	designs for exotic wood borers	MA	APHIS	\$8,541
3	3.0452.04	Lepidoptera attractants	MA	APHIS	\$10,000
_		, , , , , , , , , , , , , , , , , , , ,		1	7 7 7
5	5.0403.00	Forest Pest Outreach	MA	State Gov't	\$48,000
	6 6335 63	Exploration for Asian longhorned beetle and citrus		A D1 110	642.000
6	6.0335.02	longhorned beetle parasitoids in South Korea Harmonization of generic phytosanitary cold	MA	APHIS	\$12,000
6	6.0349.01	treatments for exotic fruit flies	MA	APHIS	\$10,000
	0.0045.01	Development of new treatment options for khapra	181/3	7.1.113	710,000
6	6.0447.01	beetle, Trogoderma granarium	MA	APHIS	\$16,500
		Fate of Asian gypsy moth introductions into areas			
6	6.0481.01	infested with European gypsy moth	MA	APHIS	\$18,000
					\$287,427

	Maryland						
1S	1S.0074.00	Grape Commodity Survey	MD	State Gov't	\$32,000		
15	1S.0076.00	Phytophthora ramorum Survey	MD	State Gov't	\$35,000		
15	15.0099.00	National Honey Bee Pests and Diseases Survey	MD	Academia	\$290,951		
15	15.0123.02	Asian Giant Hornet and Other Invasive Vespa Species Detection and Mitigation	MD	State Gov't	\$18,300		
1S	1S.0703.13	National Honey Bee Pests and Diseases Survey	MD	State Gov't	\$12,000		
3	3.0117.01	Plantago asiatica mosaic virus in lilies: Development of ELISA and confirmatory assays, distribution, and host range	MD	Non-APHIS- Federal	\$21,060		
3	3.0117.02	Plantago asiatica mosaic virus in lilies: Development of ELISA and confirmatory assays, distribution, and host range	MD	Academia	\$27,005		
3	3.0134.01	Rapid and accurate diagnostic identification of phytoplasmas	MD	APHIS	\$94,705		
3	3.0156.00	Improving extraction and identification methodologies for the plant pathogenic nematodes Bursaphelenchus and Aphelenchoi	MD	APHIS	\$32,000		
3	3.0413.00	Diagnostics of Ash Dieback disease caused by Chalara fraxiana	MD	APHIS	\$66,200		
3	3.0431.00	Integration of molecular tools for detection of Phytophthora ramorum and P. kernoviae with identification tools	MD	APHIS	\$55,000		
3	3.0484.00	International Collaboration for Molecular Diagnostic Tools for Graminicolous Downy Mildews	MD	APHIS	\$134,194		
3	3.0498.01	Delivery of taxonomic training through distance education	MD	APHIS	\$15,660		
3	3.0534.02	Molecular diagnostics of the select agent Xanthomonas oryzae	MD	APHIS	\$34,530		
3	3.0550.00	Phase 2 - International Collaboration for Validation of Molecular Diagnostic Tools for Phytophthora species of concern	MD	APHIS	\$37,000		
3	3.0553.01	Rapid On-site Molecular Diagnostics for Select Agent <i>Ralstonia solanacearum</i>	MD	APHIS	\$67,560		
4	4.0222.01	Audit Training for State and Federal Personnel - Plant Pest Management Accreditation Programs	MD	APHIS	\$17,500		
5	5.0299.00	Save Our Citrus Campaign	MD	APHIS	\$350,000		
5	5.0496.00	2015 Hungry Pests Initiative	MD	APHIS	\$450,000		
6	6.0351.01	Boxwood Blight: Studying Biology & Host-Pathogen Interactions to Enhance Mitigation Strategies	MD	Non-APHIS- Federal	\$16,200		

		Enhanced Mitigation of IDM, CDM and Other			
		Invasive Downy Mildews through Epidemiological		Non-APHIS-	
6	6.0359.03	& Genetic Approaches	MD	Federal	\$18,000
					\$1,824,865
	,	Maine			
1S	1S.0246.00	Potato Cyst Nematode Survey	ME	State Gov't	\$35,559
1S	1S.0289.00	Grape Commodity Survey	ME	State Gov't	¢E 920
13	13.0289.00	Grape Commodity Survey	IVIE	State Gov t	\$5,820
5	5.0543.00	Forest Pest Outreach	ME	State Gov't	\$44,256
	1				\$85,635
		Michigan			400,000
1S	1S.0319.00	Potato Cyst Nematode Survey	MI	State Gov't	\$22,439
					4
1S	1S.0487.00	National Honey Bee Pests and Diseases Survey	MI	State Gov't	\$12,317
1S	1S.0491.00	Oak and Pine Commodity Survey	MI	State Gov't	\$84,707
		Determining 'High Risk' viruses for blueberry			. ,
4	4.0497.01	nursery production in the U.S.	MI	Academia	\$8,875
		Enhanced Mitigation of IDM, CDM and Other			
	6 0250 02	Invasive Downy Mildews through Epidemiological		A I	6406 764
6	6.0359.02	& Genetic Approaches Brown Marmorated Stink Bug (BMSB) Classical	MI	Academia	\$196,764
6	6.0451.02	Brown Marmorated Stink Bug (BMSB) Classical Biological Control	MI	Academia	\$169,316
	1	, ,			\$494,418
		Minnesota			
		Invading Gypsy Moth Populations with FS1A			
1A	1A.0490.00	marker: Phenology and Pathways	MN	Academia	\$101,474
4.0	16.0457.00	Pathway Based Survey for Exotic Pests of Multiple	D 401	State Carl	¢101 200
1S	1S.0457.00	Agricultural Systems	MN	State Gov't	\$181,290
1S	1S.0472.00	Cyst Nematode Survey	MN	State Gov't	\$47,000
	13.0472.00	eyst Nematode survey	14114	State Gov t	Ş+7,000
1S	1S.0703.14	National Honey Bee Pests and Diseases Survey	MN	State Gov't	\$12,000
5	5.0476.00	Invasive Pest Outreach and First Detector Support	MN	State Gov't	\$212,775
_		Quantifying the impact of sanitation on the growth			40
6	6.0115.00	of EAB satellite populations	MN	Academia	\$34,000
6	6.0481.02	Fate of Asian gypsy moth introductions into areas infested with European gypsy moth	MN	Academia	\$60,000
	0.0701.02	ested with European Sypsy moth	IVIIV	, leadellia	·
					\$648,539

Missouri					
		Walnut Twig Beetle/Thousand Cankers Disease			
15	1S.0055.00	Survey	MO	State Gov't	\$26,004
5	5.0415.01	Invasive Forest Pest First Detector Training and Outreach Project	МО	Academia	\$1,000
5	5.0415.02	Invasive Forest Pest First Detector Training and Outreach Project	MO	State Gov't	\$37,000
					\$64,004
		Mississippi		T	
15	1S.0703.15	National Honey Bee Pests and Diseases Survey	MS	State Gov't	\$12,000
3	3.0356.00	Taxonomic Assistance to Eastern Regional States for Processing Insect Pest Survey Samples	MS	Academia	\$110,074
5	5.0220.01	Invasive Pest Education and Outreach Program for Mississippi	MS	Academia	\$56,031
5	5.0220.02	Invasive Pest Education and Outreach Program for Mississippi	MS	Academia	\$1,217
5	5.0220.03	Invasive Pest Education and Outreach Program for Mississippi	MS	Academia	\$7,123
6	6.0492.04	Enhanced Mitigation Techniques for Control of Cactoblastis cactorum	MS	Academia	\$10,000
					\$196,445
		Montana			
15	15.0030.00	Mollusk Survey	MT	State Gov't	\$14,807
15	1S.0264.00	Exotic Woodborer and Bark Beetle Survey	MT	State Gov't	\$24,843
1 S	1S.0703.16	National Honey Bee Pests and Diseases Survey	MT	State Gov't	\$12,000
3	3.0059.00	Pulse Crop Diagnostic Laboratory	MT	Academia	\$150,000
5	5.0089.00	Don't Move Firewood Campaign	MT	Non-Profit	\$170,135 \$371,785
		North Carolina			Ş3/1,/6 3
		Compendium of Fruit Fly Host Information			
1A	1A.0130.00	(CoffHI)	NC	APHIS	\$247,463
1A	1A.0251.00	Development and Validation of Objective Pest Prioritization	NC	APHIS	\$128,220
	44.0050.00	Economic Analysis of Control Strategies for Managing Tortricids and other Pests of Regulatory		45005	477 -04
1A	1A.0259.00	Significance Data Acquisition, Integration, and Archival Tools	NC	APHIS	\$77,594
1A	1A.0347.00	for Risk Analysis and Decision Support	NC	APHIS	\$112,927
1A	1A.0405.00	Integrative Spatiotemporal Risk Maps of Fruit Flies	NC	Academia	\$170,824

			1	1	
1S	1S.0077.00	Grape Commodity Survey	NC	State Gov't	\$8,895
15	1S.0103.00	Asian Defoliating Moth Survey	NC	State Gov't	\$15,995
15	1S.0107.00	Solanaceous Commodity Survey	NC	State Gov't	\$13,746
15	15.0108.00	Phytophthora ramorum Survey	NC	State Gov't	\$6,085
15	1S.0375.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	NC	State Gov't	\$27,473
15	1S.0703.20	National Honey Bee Pests and Diseases Survey	NC	State Gov't	\$12,000
5	5.0049.00	Engaging the Public on Forest Pests using TreeTaggr and Real-time Mapping Kiosks	NC	Non-Profit	\$50,149
6	6.0326.00	Enhancing Exotic Plant-Pest Management by Creating New Pest Response Guidelines with University Collaboration Enhanced Mitigation Techniques for Control of	NC	Academia	\$262,018
6	6.0492.02	Cactoblastis cactorum	NC	APHIS	\$5,000
					\$1,138,389
	T	North Dakota	1	1	
1S	1S.0467.00	Cyst Nematode Survey	ND	State Gov't	\$110,000
1S	1S.0703.17	National Honey Bee Pests and Diseases Survey	ND	State Gov't	\$12,000
	1		1	-1	\$122,000
		Nebraska			
1S	1S.0087.00	Khapra Beetle Survey	NE	State Gov't	\$5,000
15	15.0090.00	Potato Cyst Nematode Survey	NE	State Gov't	\$28,000
13	13.0030.00	1 otato cyst Nematouc Survey	IVE	State Gov t	728,000
1S	1S.0703.35	National Honey Bee Pests and Diseases Survey	NE	State Gov't	\$12,000
		Application of DNA barcode analysis to establish			, ,
3	3.0436.00	regulatory status of select nematode species	NE	State Gov't	\$54,000
5	5.0435.00	Forest Pest Outreach	NE	State Gov't	\$15,000
					\$114,000
	,	New Hampshire			
15	1S.0112.00	Small Fruit / Mixed Berry Commodity Survey	NH	State Gov't	\$4,999
5	5.0022.00	New Hampshire Forest Pest outreach Project	NH	Academia	\$41,756
5	5.0033.00	New Hampshire Firewood and Forest Pest Outreach	NH	State Gov't	\$16,385
		1	1	1 22322 2011	\$63,140
					, ,

	New Jersey						
15	1S.0146.00	Mollusk Survey	NJ	State Gov't	\$31,107		
1S	1S.0150.00	Solanaceous Commodity Survey	NJ	State Gov't	\$36,293		
1S	1S.0157.00	Orchard Commodity Survey	NJ	State Gov't	\$36,312		
1S	15.0352.00	Small Fruit / Mixed Berry Commodity Survey	NJ	State Gov't	\$34,885		
15	15.0703.18	National Honey Bee Pests and Diseases Survey	NJ	State Gov't	\$12,000		
4	4.0497.02	Determining 'High Risk' viruses for blueberry nursery production in the U.S.	NJ	Academia	\$5,475		
5	5.0276.00	Forest Pest Outreach	NJ	State Gov't	\$50,717		
6	6.0351.02	Boxwood Blight: Studying Biology & Host-Pathogen Interactions to Enhance Mitigation Strategies	NJ	Academia	\$246,200		
		Enhanced Mitigation of IDM, CDM and Other Invasive Downy Mildews through Epidemiological					
6	6.0359.01	& Genetic Approaches	NJ	Academia	\$202,161 \$655,150		
	New Mexico						
1S	1S.0073.00	Nut Commodity Survey	NM	State Gov't	\$25,000		
15	15.0078.00	Firewood Survey	NM	State Gov't	\$10,000		
1S	15.0703.36	National Honey Bee Pests and Diseases Survey	NM	State Gov't	\$12,000		
3	3.0172.00	Enhancing surge capacity for nematode identification in the Southwest	NM	Academia	\$49,500		
		<u>.</u>			\$96,500		
		Nevada					
1S	1S.0007.00	Phytophthora ramorum Survey	NV	State Gov't	\$36,123		
1S	1S.0010.00	Cyst Nematode Survey	NV	State Gov't	\$30,639		
1S	1S.0064.00	Khapra Beetle Survey	NV	State Gov't	\$5,000		
1S	1S.0065.00	Palm Commodity Survey	NV	State Gov't	\$10,625		
1S	1S.0703.37	National Honey Bee Pests and Diseases Survey	NV	State Gov't	\$12,000		
		New York			\$94,387		
15	1S.0051.00	Orchard Commodity Survey	NY	State Gov't	\$138,000		
1 S	1S.0054.00	Phytophthora ramorum Survey	NY	State Gov't	\$90,000		
15	15.0075.00	Grape Commodity Survey	NY	State Gov't	\$100,000		
15	1S.0081.00	Stone Fruit Commodity Survey	NY	State Gov't	\$200,000		

1S	1S.0082.00	Solanaceous Commodity Survey	NY	State Gov't	\$119,600		
1S	1S.0703.19	National Honey Bee Pests and Diseases Survey	NY	State Gov't	\$12,000		
3	3.0420.00	NPDN and State Diagnostician Readiness through Training at the CPHST-Beltsville Laboratory & other sites.	NY	Academia	\$99,345		
4	4.0095.00	Reinstating a Grape Certification Program in New York Survey	NY	State Gov't	\$158,700		
5	5.0341.00	Forest Pest Outreach	NY	State Gov't	\$36,700		
5	5.0531.00	4-H Invasive Species Action Teams (4-H ISAT)	NY	Academia	\$40,000		
6	6.0402.04	Immunity to Potato Cyst Nematodes	NY	Academia	\$56,250		
6	6.0492.06	Enhanced Mitigation Techniques for Control of Cactoblastis cactorum	NY	Academia	\$14,980		
\$1							
T		Ohio		1			
1A	1A.0459.00	Evaluating the risk posed by emerald ash borer to fringe trees, <i>Chionanthus</i> spp.	ОН	Academia	\$44,000		
15	15.0323.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	ОН	State Gov't	\$45,880		
1S	1S.0526.00	Phytophthora ramorum Survey	ОН	State Gov't	\$23,653		
1S	1S.0703.21	National Honey Bee Pests and Diseases Survey	ОН	State Gov't	\$12,000		
5	5.0248.00	First Detector Training	ОН	Academia	\$28,392		
5	5.0516.00	Diagnostic Training and Analysis of Nosema in Honey Bee Colonies	ОН	State Gov't	\$18,000		
					\$171,925		
		Oklahoma		T			
1S	1S.0421.00	Asian Defoliating Moth Survey	ОК	State Gov't	\$12,490		
		Oragon			\$12,490		
		Oregon Monitoring migration and population structure of					
1A	1A.0545.00	the Sudden Oak Death pathogen <i>Phytophthora</i> ramorum in North America	OR	Non-APHIS- Federal	\$45,000		
15	1S.0175.00	Nut Commodity Survey	OR	State Gov't	\$75,000		
15	1S.0177.00	Orchard Commodity Survey	OR	State Gov't	\$100,000		
15	15.0206.00	Solanaceous Commodity Survey	OR	State Gov't	\$58,000		
1S	1S.0216.00	Grape Commodity Survey	OR	State Gov't	\$56,000		
15	1S.0217.00	Exotic Woodborer and Bark Beetle Survey	OR	State Gov't	\$40,000		
15	1S.0221.00	High priority pest survey along high-risk pathways	OR	State Gov't	\$80,000		

4.6	46 0222 00	Asian Dafaliation Math. Comm.	0.0	State Cardt	¢200.000
1S	1S.0223.00	Asian Defoliating Moth Survey	OR	State Gov't	\$200,000
15	1S.0703.22	National Honey Bee Pests and Diseases Survey	OR	Academia	\$12,000
3	3.0209.00	Regional Identification Center for Bark Beetle and other wood boring beetles	OR	State Gov't	\$100,000
3	3.0532.01	Molecular detection of Rathayibacter species and validation by a survey in Oregon	OR	Academia	\$100,000
3	3.0532.02	Molecular detection of Rathayibacter species and validation by a survey in Oregon	OR	Academia	\$75,000
4	4.0034.02	Survey for newly reported and economically important viruses in US national berry germplasm collections	OR	Non-APHIS- Federal	\$30,300
4	4.0226.00	Implementing a Certification Program for Blueberry Nursery Stock	OR	State Gov't	\$40,236
4	4.0497.03	Determining 'High Risk' viruses for blueberry nursery production in the U.S.	OR	Non-APHIS- Federal	\$37,375
5	5.0520.01	An Evaluative Strategic Approach to Don't Pack a Pest Campaign including International Students	OR	Academia	\$73,627
5	5.0520.02	An Evaluative Strategic Approach to Don't Pack a Pest Campaign including International Students	OR	State Gov't	\$41,869
5	5.0523.00	Economic Benefits from Certification Programs to Nurseries	OR	State Gov't	\$38,565
5	5.0539.00	Oregon Forest Pest Detector	OR	Academia	\$28,987
6	6.0135.05	Eradication Strategies for <i>Globodera pallida</i> , the pale cyst nematode (PCN)	OR	Academia	\$59,910
6	6.0402.02	Immunity to Potato Cyst Nematodes	OR	Academia	\$18,998
6	6.0451.01	Brown Marmorated Stink Bug (BMSB) Classical Biological Control	OR	State Gov't	\$99,733
					\$1,410,600
		Pennsylvania			
1A	1A.0466.00	Predicting the Cumulative and Ecological Impacts of Exotic Pests & Pathogens on Forests of the Eastern US	PA	Academia	\$160,341
15	15.0123.04	Asian Giant Hornet and Other Invasive Vespa Species Detection and Mitigation	PA	State Gov't	\$48,450
1S	15.0364.01	Exotic Disease Survey in Orchards	PA	Academia	\$56,349
15	15.0364.02	Exotic Disease Survey in Orchards	PA	State Gov't	\$16,897
15	1S.0471.00	Grape Commodity Survey	PA	State Gov't	\$138,204
1S	1S.0479.01	Solanaceous Commodity Survey	PA	State Gov't	\$74,532
15	1S.0479.02	Solanaceous Commodity Survey	PA	State Gov't	\$22,772

1S	1S.0486.00	Small Fruit / Mixed Berry Commodity Survey	PA	State Gov't	\$74,532			
1S	15.0488.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	PA	State Gov't	\$74,532			
1S	1S.0703.23	National Honey Bee Pests and Diseases Survey	PA	State Gov't	\$12,000			
3	3.0348.01	Optimization and deployment of a systematic approach for diagnosis and identification of Phytophthora plant pathogens	PA	Academia	\$41,322			
3	3.0390.05	Development of Attractants and Improved Trap Designs for Exotic Wood Borers	PA	Academia	¢110 604			
4	4.0329.00	Workshop for the Continued Development of Harmonized Fruit Tree Virus Certification Standards	PA	State Gov't	\$110,694 \$73,768			
	4.0323.00	The effect of composting physical & chemical	171	State Gov t	773,700			
4	4.0463.00	parameters on <i>Cylindrocladium buxicola</i> , the causal agent of boxwood blight	PA	Academia	\$39,045			
5	5.0012.00	Sentinel Plant Network	PA	Non-Profit	\$227,239			
5	5.0298.00	Forest Pest Outreach	PA	State Gov't	\$52,921			
5	5.0388.00	Spotted Lantern Fly Outreach and Extension Program	PA	Academia	\$30,500			
6	6.0380.01	Spotted Lantern Fly Eradication Program	PA	Academia	\$27,605			
6	6.0380.02	Spotted Lantern Fly Eradication Program	PA	State Gov't	\$1,482,254			
6	6.0380.03	Spotted Lantern Fly Eradication Program	PA	Academia	\$13,240			
					\$2,777,197			
		Puerto Rico		1				
1 S	1S.0273.01	Palm Commodity Survey	PR	Academia	\$68,563			
15	1S.0703.24	National Honey Bee Pests and Diseases Survey	PR	State Gov't	\$12,000			
6	6.0385.00	Detection, Delimitation and Taxonomic Support for Helicoverpa armigera	PR	APHIS	\$461,119			
6	6.0702.00	Old World Bollworm Response	PR	APHIS	\$230,645			
		Rhode Island		1				
1S	1S.0024.00	Solanaceous Commodity Survey	RI	State Gov't	\$13,465			
1S	15.0242.00	Small Fruit / Mixed Berry Commodity Survey	RI	State Gov't	\$18,527			
15	1S.0265.00	Phytophthora ramorum Survey	RI	State Gov't	\$10,761			
		\$42,753						

		South Carolina				
15	1S.0069.00	Phytophthora ramorum Survey	SC	State Gov't	\$26,366	
15	1S.0148.00	Solanaceous Commodity Survey	SC	State Gov't	\$22,044	
15	1S.0239.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	SC	State Gov't	\$21,320	
15	1S.0245.00	Stone Fruit Commodity Survey	SC	State Gov't	\$25,500	
15	1S.0703.25	National Honey Bee Pests and Diseases Survey	SC	State Gov't	\$12,000	
3	3.0155.02	Building screening capacity for plant pathogenic phytoplasmas	SC	Academia	\$14,500	
5	5.0249.00	Junior Invasive Inspectors Program	SC	State Gov't	\$35,000	
5	5.0334.00	Forest Pest Outreach	SC	State Gov't	\$35,090	
		South Dakota			\$191,820	
1S	15.0167.00	Khapra Beetle Survey	SD	State Gov't	\$6,779	
1S	1S.0703.26	National Honey Bee Pests and Diseases Survey	SD	State Gov't	\$12,000	
	1				\$18,779	
		Tennessee		<u> </u>		
1S	1S.0170.00	Phytophthora ramorum Survey	TN	State Gov't	\$40,000	
15	1S.0250.00	Walnut Twig Beetle/Thousand Cankers Disease Survey	TN	State Gov't	\$30,000	
15	1S.0703.27	National Honey Bee Pests and Diseases Survey	TN	State Gov't	\$12,000	
5	5.0474.00	Forest Pest Outreach	TN	Academia	\$37,500	
		Expansion of A Regional Outreach Plan to Educate the Public and End users, Train Students, and				
5	5.0519.00	Enhance Management	TN	Academia	\$63,750	
6	6.0324.00	A biosystematic identification and threat assessment tool for wood-boring longhorned beetles (family Cerambycidae)	TN	APHIS	\$104,522	
6	6.0701.00	JB Harmonization Plan	TN	Academia	\$21,592	
0	\$309,364					
		Texas				
1A	1A.0378.02	Census travel risk model to predict points of disease/pest introduction and associated survey optimizer	TX	APHIS	\$8,000	
46	10,000,00	Development of Resources for Early Detection of Existing and Emerging Parasites Infesting Honey	TV	Agadami	¢40.043	
1S	1S.0088.00	Bees in Texas	TX	Academia	\$40,813	

15		1	T					
15	15	15.0132.00	Stone Fruit Commodity Survey	TX	Academia	\$60,232		
15	1S	1S.0345.00	Grape Commodity Survey	TX	Academia	\$32,000		
15 15.0703.28 National Honey Bee Pests and Diseases Survey TX Academia \$24,000 Critical Entry Point Monitoring for the Pests of Building screening capacity for plant pathogenic phytoplasmas 3 3.0155.01 phytoplasmas Genomic approaches to fruit fly exclusion and pathway analysis Real-time PCR methods for noctuid moth identification: Autographo gamma and Helicoverpa armigera 3 3.0256.03 Real-time PCR methods for noctuid moth identification: Autographo gamma and Helicoverpa armigera 5 5.0066.00 Pests Survey of College Youth's Understanding of Exotic Survey of College Youth's Understanding of Exotic TX Academia \$36,133 TX Master Gardener Specialist – First Detector program TX Academia \$36,133 TX Academia \$36,452 Impact of and Mitigation Strategies for the Tawny Crazy Ant (Mylanderia fulva) on Pecan Orchards in Southeast Texas Improving the area-wide management of Asian citrus psyllid in Texas through augmentative biological in residential areas TX Academia \$166,250 Utah 15 15.0201.00 Orchard Commodity Survey UT State Gov't \$15,000 15 15.0201.00 Orchard Commodity Survey UT Academia \$22,793 Non-APHIS-Federal \$77,654 15 15.0703.29 National Honey Bee Pests and Diseases Survey UT State Gov't \$12,000 5 5.028.00 Invasive Species Outreach Uriginia 15 15.0028.00 Phytophthora ramorum Survey Virginia	1S	15.0434.00	Palm Commodity Survey	TX	Academia	\$61,646		
Critical Entry Point Monitoring for the Pests of Biosecurity Concern	1 S	1S.0541.00	Phytophthora ramorum Survey	TX	Academia	\$30,000		
2 2.0011.00 Biosecurity Concern Building screening capacity for plant pathogenic phytoplasmas 3 3.0155.01 phytoplasmas Real-time PCR methods for noctuid moth identification: Autographa gamma and Biosecurity Concern Aphico Screening capacity for plant pathogenic phytoplasmas TX Academia \$14,500 Real-time PCR methods for noctuid moth identification: Autographa gamma and Enriching the Sentinel Pest Network to Prevent the Introduction and Spread of High-consequence Enriching the Sentinel Pest Network to Prevent the Introduction and Spread of High-consequence Pest Sourcey of College Youth's Understanding of Exotic Species and Attitudes Towards Plant Pest Control TX Academia \$36,133 TX Master Gardener Specialist – First Detector program Impact of and Mitigation Strategies for the Tawny Cray Ant (Nylunderia fulva) on Pecan Orchards in Southeast Texas Improving the area-wide management of Asian citrus psyllid in Texas through augmentative biological in residential areas TX Academia \$166,250 Utah 15 15.0147.00 Asian Defoliating Moth Survey UT State Gov't \$15,000 15 15.0201.00 Orchard Commodity Survey UT Academia \$22,793 Non-APHIS- Federal \$77,654 15 15.0521.00 Bumble bee pathogen and parasite survey UT State Gov't \$12,000 5 5.0208.00 Invasive Species Outreach UT Academia \$21,243 Virginia Virginia Virginia Virginia	1 S	1S.0703.28	National Honey Bee Pests and Diseases Survey	TX	Academia	\$24,000		
3 3.0155.01 phytoplasmas TX Academia \$14,500 Genomic approaches to fruit fly exclusion and pathway analysis TX APHIS \$14,000 Real-time PCR methods for noctuid moth identification: Autographa gamma and Helicoverpa armigera TX APHIS \$34,500 Enriching the Sentinel Pest Network to Prevent the Introduction and Spread of High-consequence S 5.0066.00 Pests TX Non-Profit \$56,000 Survey of College Youth's Understanding of Exotic Species and Attitudes Towards Plant Pest Control TX Academia \$36,133 TX Master Gardens Specialist – First Detector program TX Academia \$36,452 Impact of and Mitigation Strategies for the Tawny Crazy Ant (Nylanderia fulvo) on Pecan Orchards in Southeast Texas TX Academia \$51,920 Improving the area-wide management of Asian citrus psyllid in Texas through augmentative biological in residential areas TX Academia \$166,250 15 15.021.00 Asian Defoliating Moth Survey UT State Gov't \$15,000 15 15.0221.00 Bumble bee pathogen and parasite survey UT Academia \$22,793 15 15.0703.29 National Honey Bee Pests and Diseases Survey UT State Gov't \$12,000 16 17.0703.29 National Honey Bee Pests and Diseases Survey UT Academia \$21,243 Virginia 17 VA State Gov't \$12,000 18 15.0028.00 Phytophthora ramorum Survey VA State Gov't \$25,000 Virginia	2	2.0011.00	,	TX	State Gov't	\$763,226		
3 3.0256.03 pathway analysis TX APHIS \$14,000 Real-time PCR methods for noctuid moth identification: Autographa gamma and Helicoverpa armigera TX APHIS \$34,500 Enriching the Sentinel Pest Network to Prevent the Introduction and Spread of High-consequence 5 5.0066.00 Pests TX Non-Profit \$56,000 Survey of College Youth's Understanding of Exotic Species and Attitudes Towards Plant Pest Control TX Academia \$36,133 TX Master Gardener Specialist – First Detector program TX Academia \$36,452 Impact of and Mitigation Strategies for the Tawny Crazy Ant (Nylanderia fulva) on Pecan Orchards in Southeast Texas TX Academia \$51,920 Improving the area-wide management of Asian citrus psyllid in Texas through augmentative biological in residential areas TX Academia \$166,250 Utah 1S 15.0147.00 Asian Defoliating Moth Survey UT State Gov't \$15,000 1S 15.0201.00 Orchard Commodity Survey UT Academia \$22,793 1S 15.0703.29 National Honey Bee Pests and Diseases Survey UT State Gov't \$12,000 Survey Species Outreach UT Academia \$21,243 Virginia 1S 15.0028.00 Phytophthora ramorum Survey VA State Gov't \$25,000 Walnut Twig Beetle/Thousand Cankers Disease	3	3.0155.01		TX	Academia	\$14,500		
3 3.0262.01 identification: Autographa gamma and Helicoverpa armigera TX APHIS \$34,500	3	3.0256.03	, ,	TX	APHIS	\$14,000		
Enriching the Sentinel Pest Network to Prevent the Introduction and Spread of High-consequence 5	2	2 0262 01	identification: Autographa gamma and	TV	ADLUC	¢24 F00		
5 5.0066.00 Pests TX Non-Profit \$56,000 Survey of College Youth's Understanding of Exotic Species and Attitudes Towards Plant Pest Control TX Academia \$36,133 TX Master Gardener Specialist – First Detector TX Academia \$36,452 Impact of and Mitigation Strategies for the Tawny Crazy Ant (Nylanderia fulva) on Pecan Orchards in Southeast Texas TX Academia \$51,920 Improving the area-wide management of Asian citrus psyllid in Texas through augmentative biological in residential areas TX Academia \$166,250 TX Academia \$166,250 \$1,429,672 Utah 15 15.0147.00 Asian Defoliating Moth Survey UT State Gov't \$15,000 15 15.0201.00 Orchard Commodity Survey UT Academia \$22,793 Non-APHIS-15 15.0521.00 Bumble bee pathogen and parasite survey UT Federal \$77,654 15 15.0703.29 National Honey Bee Pests and Diseases Survey UT State Gov't \$12,000 5 5.0208.00 Invasive Species Outreach UT Academia \$21,243 \$148,690 Virginia 15 15.0028.00 Phytophthora ramorum Survey VA State Gov't \$25,000 Walnut Twig Beetle/Thousand Cankers Disease	3	3.0262.01	Enriching the Sentinel Pest Network to Prevent the	IX	APHIS	\$34,500		
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5 5.0196.00 Species and Attitudes Towards Plant Pest Control TX Academia \$36,133 TX Master Gardener Specialist – First Detector program TX Academia \$36,452 Impact of and Mitigation Strategies for the Tawny Crazy Ant ((Nylanderia fulva) on Pecan Orchards in Southeast Texas TX Academia \$51,920 Improving the area-wide management of Asian citrus psyllid in Texas through augmentative biological in residential areas TX Academia \$166,250 Utah 15 15.0147.00 Asian Defoliating Moth Survey UT State Gov't \$15,000 15 15.0201.00 Orchard Commodity Survey UT Academia \$22,793 15 15.0703.29 National Honey Bee Pests and Diseases Survey UT State Gov't \$12,000 16 15 15.0208.00 Invasive Species Outreach UT Academia \$21,243 \$148,690 Virginia 15 15.0028.00 Phytophthora ramorum Survey VA State Gov't \$25,000 Walnut Twig Beetle/Thousand Cankers Disease		3.0000.00		1//	Non Tronc	\$30,000		
5 5.0437.00 program TX Academia \$36,452 Impact of and Mitigation Strategies for the Tawny Crazy Ant (Nylanderia fulva) on Pecan Orchards in 6 6.0114.00 Southeast Texas TX Academia \$51,920 Improving the area-wide management of Asian citrus psyllid in Texas through augmentative 6 6.0362.00 biological in residential areas TX Academia \$166,250 **S1,429,672** **Utah** 1\$ 15.0147.00 Asian Defoliating Moth Survey UT State Gov't \$15,000 1\$ 15.0201.00 Orchard Commodity Survey UT Academia \$22,793 **Non-APHIS-15** 1\$ 15.0521.00 Bumble bee pathogen and parasite survey UT Federal \$77,654 1\$ 15.0703.29 National Honey Bee Pests and Diseases Survey UT State Gov't \$12,000 5 5.0208.00 Invasive Species Outreach UT Academia \$21,243 **S148,690** **Virginia** 1\$ 15.0028.00 Phytophthora ramorum Survey VA State Gov't \$25,000 Walnut Twig Beetle/Thousand Cankers Disease	5	5.0196.00	,	TX	Academia	\$36,133		
Impact of and Mitigation Strategies for the Tawny Crazy Ant (Nylanderia fulva) on Pecan Orchards in Southeast Texas TX Academia \$51,920 Improving the area-wide management of Asian citrus psyllid in Texas through augmentative biological in residential areas TX Academia \$166,250 Utah 1S 15.0147.00 Asian Defoliating Moth Survey UT State Gov't \$15,000 1S 15.0201.00 Orchard Commodity Survey UT Academia \$22,793 IS 15.0521.00 Bumble bee pathogen and parasite survey UT Federal \$77,654 1S 15.0703.29 National Honey Bee Pests and Diseases Survey UT State Gov't \$12,000 5 5.0208.00 Invasive Species Outreach UT Academia \$21,243 Virginia 1S 15.0028.00 Phytophthora ramorum Survey VA State Gov't \$25,000 Walnut Twig Beetle/Thousand Cankers Disease			TX Master Gardener Specialist – First Detector					
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Improving the area-wide management of Asian citrus psyllid in Texas through augmentative biological in residential areas TX Academia \$166,250 \$1,429,672 Utah 1S 1S.0147.00 Asian Defoliating Moth Survey UT State Gov't \$15,000 1S 1S.0201.00 Orchard Commodity Survey UT Academia \$22,793 1S 1S.0521.00 Bumble bee pathogen and parasite survey UT Federal \$77,654 1S 1S.0703.29 National Honey Bee Pests and Diseases Survey UT State Gov't \$12,000 5 5.0208.00 Invasive Species Outreach UT Academia \$21,243 \$148,690 Virginia		6.0444.00	Crazy Ant (<i>Nylanderia fulva</i>) on Pecan Orchards in	- 77		454.000		
citrus psyllid in Texas through augmentative biological in residential areas TX Academia \$166,250 \$1,429,672 Utah 1S 1S.0147.00 Asian Defoliating Moth Survey UT State Gov't \$15,000 1S 1S.0201.00 Orchard Commodity Survey UT Academia \$22,793 1S 1S.0521.00 Bumble bee pathogen and parasite survey UT Federal \$77,654 1S 1S.0703.29 National Honey Bee Pests and Diseases Survey UT State Gov't \$12,000 5 5.0208.00 Invasive Species Outreach UT Academia \$21,243 \$148,690 Virginia 1S 1S.0028.00 Phytophthora ramorum Survey VA State Gov't \$25,000 Walnut Twig Beetle/Thousand Cankers Disease	6	6.0114.00		IX	Academia	\$51,920		
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1S 1S.0521.00 Bumble bee pathogen and parasite survey UT Federal \$77,654 1S 1S.0703.29 National Honey Bee Pests and Diseases Survey UT State Gov't \$12,000 5 5.0208.00 Invasive Species Outreach UT Academia \$21,243 \$148,690 Virginia 1S 1S.0028.00 Phytophthora ramorum Survey Walnut Twig Beetle/Thousand Cankers Disease	1 S	1S.0201.00	Orchard Commodity Survey	UT	Academia	\$22,793		
5 5.0208.00 Invasive Species Outreach UT Academia \$21,243 \$148,690 Virginia 1S 1S.0028.00 Phytophthora ramorum Survey VA State Gov't \$25,000 Walnut Twig Beetle/Thousand Cankers Disease	15	1S.0521.00	Bumble bee pathogen and parasite survey	UT		\$77,654		
Virginia 1S 1S.0028.00 Phytophthora ramorum Survey VA State Gov't \$25,000 Walnut Twig Beetle/Thousand Cankers Disease	15	1S.0703.29	National Honey Bee Pests and Diseases Survey	UT	State Gov't	\$12,000		
Virginia 1S 1S.0028.00 Phytophthora ramorum Survey VA State Gov't \$25,000 Walnut Twig Beetle/Thousand Cankers Disease	5	5.0208.00	Invasive Species Outreach	UT	Academia	\$21,243		
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Walnut Twig Beetle/Thousand Cankers Disease			Virginia					
	15	15.0028.00		VA	State Gov't	\$25,000		
	15	1S.0038.00		VA	State Gov't	\$28,000		

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15	1S.0058.00	Stone Fruit Commodity Survey	VA	State Gov't	\$20,000
1S	1S.0141.00	Grape Commodity Survey	VA	State Gov't	\$29,111
15	1S.0703.30	National Honey Bee Pests and Diseases Survey	VA	State Gov't	\$12,000
3	3.0043.02	Attraction and Detection of the Fruit Piercing Moth Development of Attractants and Improved Trap	VA	Academia	\$89,000
3	3.0390.02	Designs for Exotic Wood Borers	VA	Academia	\$11,000
4	4.0412.00	Understanding Pathogen Biology & Epidemiology to Enhance Mitigation Strategies for Boxwood Blight	VA	Academia	\$300,000
					\$514,111
		Vermont			
1S	1S.0162.00	Exotic Woodborer and Bark Beetle Survey	VT	State Gov't	\$23,335
15	15.0163.00	Apple Commodity Survey	VT	State Gov't	\$19,526
1S	1S.0164.00	Grape Commodity Survey	VT	State Gov't	\$16,336
1S	1S.0703.31	National Honey Bee Pests and Diseases Survey	VT	Academia	\$12,000
5	5.0161.00	Forest Pest Outreach	VT	State Gov't	\$37,500
					\$108,697
		Washington			
1A	1A.0205.00	Economic Assessment of Pest and Disease Outbreaks: Plums/Prunes and Apricots	WA	APHIS	\$54,811
15	1S.0149.00	Asian Defoliating Moth Survey	WA	State Gov't	\$200,000
15	1S.0255.00	Stone Fruit Commodity Survey	WA	State Gov't	\$144,000
1S	1S.0703.32	National Honey Bee Pests and Diseases Survey	WA	State Gov't	\$12,000
10	13.0703.32	Western States Lepidoptera Diagnostic Center		State Cov t	Ψ12,000
3	3.0086.00	(PNW)	WA	State Gov't	\$121,851
3	3.0452.01	Lepidoptera Attractants	WA	State Gov't	\$13,000
3	3.0452.05	Lepidoptera Attractants	WA	State Gov't	\$39,000
		Effectiveness of biofilters for removing inoculum of			755,000
		P. ramorum and other Phytophthora spp. from			
4	4.0442.00	contaminated nursery water	WA	Academia	\$20,000
4	4.0510.00	Harmonizing Protocols in the Northwest - A Pilot Project Driven by Stakeholders	WA	Non-Profit	\$140,206
_		Eradication Strategies for Globodera pallida, the			10
6	6.0135.06	pale cyst nematode (PCN)	WA	Academia	\$30,600
6	6.0168.00	Vineyard snail eradication	WA	State Gov't	\$49,793

6 6.0203.01 Hatching Factors for the Mitigation of PCN WA Federal \$45,750					Non-APHIS-		
6 6.0402.07 Immunity to Potato Cyst Nematodes Biopesticide dips to enhance the mitigation of slugs on exported Christmas trees WA Academia \$9,885 Steaming as a method of eradicating Phytophthora ramorum and associated Phytophthora species in WA Academia \$57,912 6 6.0444.00 Washington State ornamentals WA Academia \$57,912 6 6.0552.04 Sterile Litchi Tomato - PCN Eradication WA Federal \$20,000 \$973,808 Wisconsin 15 15.0140.00 Phytophthora ramorum Survey WI State Gov't \$37,337 15 15.0394.00 Grape Commodity Survey WI State Gov't \$18,550 15 15.0703.33 National Honey Bee Pests and Diseases Survey WI State Gov't \$12,000 Expansion of Wisconsin's First Detector Network to Volunteer Networks and Professionals West Virginia 15 15.0100.00 Phytophthora ramorum Survey WV State Gov't \$19,500 15 15.0186.00 Solanaceous Commodity Survey WV State Gov't \$11,000 16 15.0703.38 National Honey Bee Pests and Diseases Survey WV State Gov't \$11,000 17 10.000 Invasive Pest Outreach and Early Detection Training WV State Gov't \$30,000	6	6.0203.01	Hatching Factors for the Mitigation of PCN	WA		\$45.750	
Biopesticide dips to enhance the mitigation of slugs on exported Christmas trees Steaming as a method of eradicating Phytophthora ramorum and associated Phytophthora species in WA Academia \$57,912 6 6.0444.00 Washington State ornamentals WA Academia \$57,912 6 6.0552.04 Sterile Litchi Tomato - PCN Eradication WA Federal \$20,000 **Sp73,808** **Wisconsin** **Wisconsin** **Is.0140.00 Phytophthora ramorum Survey WI State Gov't \$18,550 15 15.0482.00 Potato Cyst Nematode Survey WI State Gov't \$18,550 15 15.0703.33 National Honey Bee Pests and Diseases Survey WI State Gov't \$12,000 **Expansion of Wisconsin's First Detector Network to Volunteer Networks and Professionals WI Academia \$50,917 **Survey WI State Gov't \$177,554 **West Virginia** **West Virginia** 15 15.0186.00 Solanaceous Commodity Survey WV State Gov't \$11,000 15 15.0703.38 National Honey Bee Pests and Diseases Survey WV State Gov't \$11,000 16 15.0703.38 National Honey Bee Pests and Diseases Survey WV State Gov't \$11,000 17 15 15.0703.38 National Honey Bee Pests and Diseases Survey WV State Gov't \$11,000 18 15.0703.38 National Honey Bee Pests and Diseases Survey WV State Gov't \$11,000 19 15.0703.38 National Honey Bee Pests and Diseases Survey WV State Gov't \$12,000 10 10 10 10 10 10 10 10 10 10 10 10 10 1						· ,	
6 6.0440.00 slugs on exported Christmas trees Steaming as a method of eradicating Phytophthora ramorum and associated Phytophthora species in WA Academia \$9,885 6 6.0444.00 Washington State ornamentals WA Academia \$57,912 Non-APHIS-Federal \$20,000 \$973,808 Wisconsin 15 15.0140.00 Phytophthora ramorum Survey WI State Gov't \$37,337 15 15.0482.00 Potato Cyst Nematode Survey WI Academia \$58,750 15 15.0703.33 National Honey Bee Pests and Diseases Survey WI Academia \$50,917 Expansion of Wisconsin's First Detector Network to Volunteer Networks and Professionals West Virginia 15 15.0186.00 Solanaceous Commodity Survey WV State Gov't \$11,000 15 15.0703.38 National Honey Bee Pests and Diseases Survey WV State Gov't \$19,500 16 15.0703.38 National Honey Bee Pests and Diseases Survey WV State Gov't \$19,500 17 15.0186.00 Solanaceous Commodity Survey WV State Gov't \$11,000 18 15.0703.38 National Honey Bee Pests and Diseases Survey WV State Gov't \$12,000 19 15.0703.38 National Honey Bee Pests and Diseases Survey WV State Gov't \$12,000 Invasive Pest Outreach and Early Detection Training WV State Gov't \$30,000	6	6.0402.07	Immunity to Potato Cyst Nematodes	WA	Academia	\$15,000	
Steaming as a method of eradicating Phytophthora ramorum and associated Phytophthora species in WA Academia \$57,912 6 6.0444.00 Washington State ornamentals WA Academia \$57,912 6 6.0552.04 Sterile Litchi Tomato - PCN Eradication WA Federal \$20,000 \$973,808 Wisconsin 1S 15.0140.00 Phytophthora ramorum Survey WI State Gov't \$37,337 1S 15.0394.00 Grape Commodity Survey WI State Gov't \$18,550 1S 15.0482.00 Potato Cyst Nematode Survey WI Academia \$58,750 1S 15.0703.33 National Honey Bee Pests and Diseases Survey WI State Gov't \$12,000 Expansion of Wisconsin's First Detector Network to Solutineer Networks and Professionals WI Academia \$50,917 West Virginia 1S 15.0100.00 Phytophthora ramorum Survey WV State Gov't \$19,500 1S 15.0186.00 Solanaceous Commodity Survey WV State Gov't \$11,000 1S 15.0703.38 National Honey Bee Pests and Diseases Survey WV State Gov't \$11,000 Invasive Pest Outreach and Early Detection Training WV State Gov't \$30,000			Biopesticide dips to enhance the mitigation of				
ramorum and associated Phytophthora species in Washington State ornamentals 6 6.0444.00 Washington State ornamentals Washington State ornamentals 8 57,912 Non-APHIS-Federal \$20,000 \$973,808 Wisconsin 1S 15.0140.00 Phytophthora ramorum Survey WI State Gov't \$37,337 1S 15.0394.00 Grape Commodity Survey WI State Gov't \$18,550 1S 15.0482.00 Potato Cyst Nematode Survey WI Academia \$58,750 1S 15.0703.33 National Honey Bee Pests and Diseases Survey WI State Gov't \$12,000 Expansion of Wisconsin's First Detector Network to Volunteer Networks and Professionals West Virginia 1S 15.0100.00 Phytophthora ramorum Survey WV State Gov't \$19,500 1S 15.0703.38 National Honey Bee Pests and Diseases Survey WV State Gov't \$11,000 1S 15.0703.38 National Honey Bee Pests and Diseases Survey WV State Gov't \$11,000 1S 15.0703.38 National Honey Bee Pests and Diseases Survey WV State Gov't \$12,000 Invasive Pest Outreach and Early Detection Training WV State Gov't \$30,000	6	6.0440.00		WA	Academia	\$9,885	
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Sterile Litchi Tomato - PCN Eradication WA Federal \$20,000 \$973,808 \$973,808	6	6.0444.00	Washington State ornamentals	WA		\$57,912	
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